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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/707,480	12/17/2003	Douglas Zhu	81086614	1479	
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BROOKS KU	SHMAN P.C./FGTL		NORMAN, MARC E		
1000 TOWN CI 22ND FLOOR	ENTER		ART UNIT	PAPER NUMBER	
	, MI 48075-1238		3744	3744 DATE MAIL ED: 03/01/2005	
			DATE MAILED: 02/01/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

## Defice Action Summary The MalLING DATE of this communication appears on the cover sheet with the correspondence address		
Examin r	Application No. Applicant(s)	
Marc E. Norman 3744 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Examinous of aniamy by be willow under the provision of 37 CFR 1.78(a). In no event, however, may a reply be timely filled Examinous of aniamy by be willow under the provision of 37 CFR 1.78(b). In no event, however, may a reply be timely filled Examinous of reply is specified above. The maximum of 37 CFR 1.78(a) is no event, however, may a reply be timely filled Examinous of reply is specified above. The maximum of 37 CFR 1.78(a) is no event, however, may a reply be timely filled Examinous of reply is pecified above. The maximum of 37 CFR 1.78(a) is no event, however, may a reply be timely filled Examinous of reply is pecified above is less than thirty (30) days, a reply willn the statutory minimum of bitty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply willn the statutory minimum of bitty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply willn the statutory minimum of bitty (30) days will be considered timely. If the period for reply specified timely filled the specified to be considered timely. If the period for reply specified timely filled the specified to be specified to by the Examinor. Application Papers 9 The specification is objected to by the Examinor. 10 The drawing(s) filled on 17 December 2003 is/are: a) accepted or b) objected to by the Examinor. Application Papers 9 The specification is objected to by the Examinor. 10 Acknowledgment is made of a	10/707,480 ZHU ET AL.	
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be evaluable under the provision of 30 GFR 1.315(a). In no event, however, may a reply be timely little difference of time may be remained under the provision of 30 GFR 1.315(a). In no event, however, may a reply be timely little difference of time handless due of the communication. If the period or may be specified shows it less than this (0) days, a reply within the stautory minimum of thirty (30) days will be correleted finely. If the period or may be specified shows it less than their (0) days, a reply within the stautory minimum of thirty (30) days will be correleted finely. If the period or may be specified on the period of the communication, and the period of the communication of the period of the communication of the period of the communication of the period of t	Examin r Art Unit	Office Action Summary
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under be provisions of 37 CFR 1.136(a). In no event, however, may a reply be limely filed Extensions of time may be available under be provisions of 37 CFR 1.136(a). In no event, however, may a reply be limely filed Extensions of time may be available under be provision of 37 CFR 1.136(a). In no event, however, may a reply do limited by the state of the provision	ppears on the cover sheet with the correspondence address	
1) ⊠ Responsive to communication(s) filed on 17 December 2003. 2a] ☐ This action is FINAL. 2b) ⊠ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 17 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1 ☐ Certified copies of the priority documents have been received in Application No 3 ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.	1.136(a). In no event, however, may a reply be timely filed eply within the statutory minimum of thirty (30) days will be considered timely. It will apply and will expire SIX (6) MONTHS from the mailing date of this communication. ute, cause the application to become ABANDONED (35 U.S.C. § 133).	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing
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Paper No(s)/Mail Date <u>12/17/03</u> . 6) Other:	8) 5) Notice of Informal Patent Application (PTO-152)	3) M Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

DETAILED ACTION

Claim Objections

Claims 2 and 3 are objected to because of the following informalities: As written, claim 3 depends from itself, and also claim 2 depends from claim 3. For purposes of examination, these claims have been examined as if they depended from claim 1, which the Examiner suspects Applicant intended. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-17 and 19-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Saito et al.

As per claims 1-6, 12, and 19, Saito et al. discloses a method of masking vehicle noise by monitoring vehicle speed, setting a battery fan speed at a certain value at zero vehicle speed, and increasing a fan speed linearly/monotonically according to vehicle speed (dashed control duty value of Figure 8).

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Art Unit: 3744

As per claims 7 and 21, Saito et al. discloses increasing fan speed according to cooling requirements regardless of vehicle speed (see Figure 8, solid control duty value line between t2 and t4).

As per claims 8, 9, 21, and 22, Saito et al. further discloses the fan speed control discussed above being a duty cycle, as illustrated in Figure 8 and discussed in the Abstract.

As per claims 10, 11, 13, and 14, Saito et al. discloses the vehicle being a hybrid electric vehicle (paragraph 0004).

As per claim 15, see discussion of similar claim 7, above.

As per claim 16 and 17, see discussions of similar claims 8 and 9, above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito et al.

Art Unit: 3744

As per claim 18, Saito et al. does not disclose the specific temperatures and duty cycle values recited, however, official notice is taken that these are common temperature and duty cycle values that would have been obvious to one of ordinary skill in the art a the time of the invention as mere matters of design choice for the purpose of optimizing the efficiency of the system of Saito et al.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc E. Norman whose telephone number is 571-272-4812. The examiner can normally be reached on Mon.-Fri., 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on 571-272-4808. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MN

MARC NORMAN PRIMARY EXAMINER